

# Dario Caro: Curriculum Vitae



## Work address

European Commission, Joint Research Centre, Directorate Growth and Innovation  
Unit B5: Circular Economy and Industrial Leadership  
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## Personal details

Born in Siena, Italy, December 6<sup>th</sup>, 1982.  
Language: Italian (mother tongue), English (fluency), Spanish (advanced), Danish (basic).

## Education

2013 PhD Degree in Environmental Chemistry, University of Siena, Italy  
2010 MS Degree in Environmental Chemistry, University of Siena, Italy  
2006 BS Degree in Chemistry, University of Siena, Italy

## Employment

2021-present Scientific Project Officer. European Commission. Joint Research Centre, Seville Spain  
2016-2021 Researcher Dep. of Environmental Sciences, Aarhus University, Denmark  
2014-2015 Post Doc. Dep. Of Animal Sciences, University of California, Davis, California USA  
2013-2014 Post Doc. Dep. of Physical Sciences, Earth and Environment, University of Siena, Italy  
2012-2013 Short-term student Dep. Of Global Ecology, Stanford University, California, USA  
2010-2013 PhD stud. Dep. of Physical Sciences, Earth and Environment, University of Siena, Italy

## Scientific area

His research focuses on assessing and evaluating how the agricultural and waste sectors have an impact on the environment around the globe. His main expertise concerns the complex interactions of agriculture/livestock and waste sector with climate change and global ecology at different level of analysis. A large part of his research provided a special focus on the role of the international trade of products and its associated environmental impact. His environmental assessments developed by using sustainability indicators such as LCA, footprint-based analysis, GHG and pollution emissions inventory, have addressed to multiple sources of impact such as land use, water resources, traditional pollutants and GHG emissions.

## Research Projects

Involved in a number of national and international research project as both participant and research unit coordinator. Some examples are:

- PlantPro: Innovation Fund Denmark (2021-2024). Accelerating an efficient green plant and sustainable protein consumer transition. ≈1M Euro. WP Leader
- MIMICA touch: EIT food (2021) “innovation area”. Reducing food waste with Mimica label. ≈1M Euro. WP Leader.
- GATE: AUFF starting grant Denmark (2017-2020). Global Analysis of Trade related Emissions. ≈250K Euro, PI.
- DECISIVE: H2020 (2016-2020). DECentralized management Scheme for Innovative Valorization of urban biowaste. ≈3M Euro. WP leader.
- Mitigation of enteric fermentation from global livestock systems through nutrition strategies (2015), US Ministry funding, WP leader.
- BALLO: Italian Ministry (2014-2015). Ecosystem services and CO2 emissions evaluation due to micro-algae production aimed to biofuel production ≈1M Euro. WP leader. .

- REGES: Italian Ministry (2010-2014). Greenhouse gases inventory of the Siena Province (2010-2014), Italian Ministry, direct annual basis funds, WP leader.

### **Contributions to the development of the field**

- Convener of the session “Pathways to a sustainable global economy” at the EGU conference 2019 in Vienna
- Editor of the special issue: “Drivers of Environmental Impacts from Agricultural Production Systems” in Sustainability journal (2020-present)
- Coordinator of the PhD course: “The environmental impact of the agricultural sector: assessment methodologies toward a circular economy perspective”. Nov. 2020.

### **Memberships**

- Member of the Advances in Cleaner Production Network (ACPN) (2015-present).
- Member of the Editorial Board of the journal Resources, Environment and Sustainability. Elsevier (2021-present)
- Member of the editorial board of Frontiers in Energy System and Frontiers in Energy Food Systems (2020-present).
- Member of Eco Quadro Think Tank (2020-present).

### **Academic award and honours**

Best poster under section “Biodiversity and Ecosystem services”, NTNU conference, October 18th-20th 2017, Trondheim, Norway. Title: Land use change emissions embodied in Brazilian pork and poultry meat.

### **International relations**

His research network is international with collaboration in so many areas of the world. He has been involved in international press releases. His work on the relationship between Covid-19 and pollution has had international interest.

### **Other scientific qualifications**

He has participated to scientific schools with international recognition. Some example are:

- “Writing Scientific Articles in English” (with final exam) held by Adrian Wallwork in March / April 2011, for a total of 10 hours of lessons. University of Siena.
- II National School of Environmental and Cultural Heritage Chemistry. Coordinator: Italian Chemical Society – Environmental and Cultural Heritage Division, Ca’ Foscari University of Venice – Department of Environmental Sciences, Informatics and Statistics. 4-9 July (2011). Feltre (Italy).
- “Scientific Writing” (with final exam) held by Kristin Sainani in January/March 2013, for a total of 18 hours of lessons. Stanford University
- Summerschool on climate change impacts and policy in the Mediterranean basin. 19th - 23th May 2014. Island of San Giorgio Maggiore, Venice, Italy. International Center for Climate Governance (ICCG); Euro-Mediterranean Centre for Climate Change (CMCC).
- Marie Curie Masterclass Programme, Roskilde, September 2016.
- PhD supervision course. GSST, Aarhus University (Aarhus, Denmark), March 23<sup>th</sup>-24<sup>th</sup>, 2017
- “Life Cycle Assessment Basic principles and uses”. Chemelot InSciTe course. Maastricht University (March-April 2021).

### **Supervision of students**

Supervision of about 10 master/traineeship students. Co-supervision of 4 PhD students. Co-Supervisor of 5 master degree thesis. External reviewer of 2 PhD theses/defences.